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Abstr. 6563, line 2: *for* D. L. HOLLOWAY *read* D. L. HOLLWAY.
Author Index, p. 1060, column 1: ARENS, H.: *for* 3755 *read* 3655.
Author Index, p. 1082, column 1, line 35, COULSON, C. A.: *for* 9115 *read* 9118.
Author Index, p. 1102, column 1, line 1: *for* GOLDMAN, J., *read* GOLDMANN, J.
Author Index, p. 1109, column 1, line 50, HEATH, C. F., LINNETT, J. W. and WHEATLEY, P. J.: *for* 4254 *read* 4245.
Author Index, p. 1142, column 2, line 60: *for* MONTROL, E. W., *read* MONTROLL, E. W.
Author Index, p. 1151, column 1, line 68: *for* CLUIUS, K., *read* CLUSIUS, K.
Author Index, p. 1184, column 1, line 82, v. LAUE, M.: *for* 9115 *read* 9118.
Author Index, p. 1192, column 2, line 63, ZHDANOV, V. A. and KONUSOV, V. F.: *for* 9112 *read* 9115.

ERRATA, 1951

Abstr. 1101, line 10: *for* 10^{-5}–10^{-6} *read* 10^{5}–10^{6}.
Abstr. 2548, line 5: *for* 155–161 *read* 1155–1161.
Abstr. 5621, line 2: *insert* L. HALPERN *as second author.*
Abstr. 9738, line 3: *for* HAWSLEY *read* HAWKSLEY.
Abstr. 9804, line 5: *for* (Oct., 1950) *read* (Oct., 1951).
Author Index, p. 1174, column 2, line 25: *insert* BLASER, J. P., BOEHM, F., MARMIER, P. and PEASLEE, D. C. *as authors of* 3763.
Author Index, p. 1207, column 2, after line 63: *insert* GASSMANN, F. The elasticity of porous media, 9743.
Author Index, p. 1216, column 1: *insert* HALPERN, L. *See* KOCH, K. M., 5621.
Author Index, p. 1234, column 1, line 12: *insert* KOCH, K. M., and HALPERN, L., *as authors of entry for* Abstr. 5621
Author Index, p. 1250, column 2, MENDELEV, B. G.: *insert* "Deionization of Hg vapours at low pressures in strong electric field, 6289."
Author Index, p. 1263, column 2: *for* PERKINS, J. F., and SOLBERG, A. W., JR, *read* PERKINS, J. F., and SOLBRIG A. W., JR; p. 1285, column 1: *for* SOLBERG, A. W., JR, *read* SOLBRIG, A. W., JR.
Author Index, p. 1282, column 2: *insert* SHULL, H. Theoretical computations of transition probabilities fo electronic spectra of C_2 and N_2^+, 185.

ERRATA, 1952

p. 508, column 2, line 19: *for* Abstr. 4278 *read* Abstr. 4728.
p. 611, column 2, line 5: *for* Abstr. 5477–81 *read* Abstr. 5477–8.
Abstr. 251, line 2: *for* J. M. T. VIDAL *read* J. M. THARRATS VIDAL.
Abstr. 486, line 2: *for* M. G. INGRAM *read* M. G. INGHRAM.
Abstr. 539, line 5: *for* 270 MeV *read* 270 keV.
line 7: for $l = 2$ read $l = 1$.
Delete comment in brackets.
Abstr. 762, line 3: *for* KHALATNIKOV, J. M., *read* KHALATNIKOV, I. M.
Abstr. 904, line 1: *insert* G. SILJEHOLM *as first author.*
Abstr. 1113, line 2: *for* V. I. VERKIN *read* B. I. VERKIN.
Abstr. 1481, line 4: *for* 3341 (1951) *read* 781 (1952).
Abstr. 1703, line 8: *for* Rl *read* Rh.
Abstr. 2055, line 6: *for* Pa^{109} *read* Pd^{109}.
Abstr. 3113, line 3: for (*July–Sept.*, 1951) read (*July–Dec.*, 1951).
Abstr. 4220, line 5: *delete* "R.C.A."
Abstr. 4394, line 3: for (*Inst. Fis. Publ. No.* 3*c*) read (*Inst. Fis. Publ. No.* 30).
Abstr. 4512, line 2: *for* SCHULER, K. E., *read* SHULER, K. E.
Abstr. 4518, line 3: *for* $H^{1}{}_{5}^{2}$ *read* H_5.
Abstr. 4889, line 1: *for* L *read* h.
Abstr. 5708, line 2: *for* M. B. VOLKENSHTEIN *read* M. V. VOLKENSHTEIN.
Abstr. 6232, line 4: *for* F. C. REED *read* E. C. READ.
Abstr. 6362, line 3: *for* K. L. V. SLUIS *read* K. L. VANDER SLUIS.
Abstr. 6751, line 3: *for* H. F. STODDARD *read* H. F. STODDART.
Abstr. 6988, line 6: for $\rho +$ at end of line, read $\rho -$
Abstr. 7018, line 6: for g_{ik}; *l* read $g^{\ i\ k}_{+\ -}$; for $\Gamma_{\lambda\mu}$ read $\Gamma^{\nu}_{\lambda\mu}$.
Abstr. 7056, last line: *for* curve *read* cone.
Abstr. 7103, line 10: *for* starting *read* standing.
Abstr. 7200, last line: *for* (1902) *read* (1931).
Abstr. 7217, line 5: *delete* that
line 6: for *hk*O read *hk*0.
Abstr. 7224, line 3: add *In German.*
Abstr. 7225, line 4: add *In German.*

Abstr. 7280, line 7: for σ_0 read σ_1.
Abstr. 7393, line 7: *for* 250 *read* 950.
Abstr. 7402, line 2: *for* G. P. KHUTSISHVILI *read* G. R. KHUTSISHVILI.
Abstr. 7434, line 7: *for* of *read* and.
Abstr. 7438, last line: *for* base *read* lens.
Abstr. 7444, line 3: *for* L. E. TIAMTJOAN *read* LIE TIAM TJOAN.
Abstr. 7679, line 10: for $L\partial\frac{1}{2}$ read $L\partial^{\frac{1}{2}}$.
Abstr. 7696, line 12: *for* 615 Å *read* 6·15 Å.
Abstr. 8224, line 5: *for* of *read* between.
Abstr. 8262, line 2: *for* $\gamma z|^n$ *read* $\gamma|z^n$.
Abstr. 8473, line 5: for U° read V°.

CORRECTIONS TO ARTICLES

Corrections have been published, as shown below, to the articles whose Abstract numbers are given. Unless otherwise stated, the volume and page given refer to the journal named in the abstract, i.e. the journal in which the original article was published.

Abstr. 4236 (1950): **20,** 924 (*April*, 1952).
Abstr. 907 (1951): **20,** 759 (*April*, 1952).
Abstr. 6248 (1951): **21,** 712 (1951).
Abstr. 8024 (1951): **20,** 201 (*Jan.*, 1952).
Abstr. 8268 (1951): **42,** 1450 (*Dec.*, 1951).
Abstr. 8819 (1951): **17,** 1032 (*Nov.–Dec.*, 1951).
Abstr. 8846 (1951): **20,** 740 (*April*, 1952).
Abstr. 8881 (1951): **20,** 1498 (*Sept.*, 1952).
Abstr. 9283 (1951): **48,** 208 (*Pt I*, 1952).
Abstr. 9332 (1951): **10,** 200 (*No.* 3, 1952).
Abstr. 182 (1952): **85,** 1064–5 (*March* 15, 1952).
Abstr. 361 (1952): **20,** 537 (*March*, 1952).
Abstr. 467 (1952): **85,** 1064 (*March* 15, 1952).
Abstr. 535 (1952): **85,** 1064 (*March* 15, 1952).
Abstr. 781 (1952): **12,** 951 (*Dec.*, 1951).
Abstr. 1268 (1952): **10,** 48 (*No.* 1–2, 1952).
Abstr. 1329 (1952): **23,** 420 (*Aug.*, 1952).
Abstr. 1521 (1952): **20,** 760 (*April*, 1952).
Abstr. 1957 (1952): (1952) 1185 (*March*).
Abstr. 1982 (1952): **23,** 599–600 (*May*, 1952).
Abstr. 2014 (1952): **20,** 756 (*April*, 1952).
Abstr. 2024 (1952): **20,** 920 (*April*, 1952).
Abstr. 2044 (1952): **85,** 1064 (*March* 15, 1952).
Abstr. 2155 (1952): **20,** 927 (*April*, 1952).
Abstr. 2204 (1952): **20,** 917 (*April*, 1952).
Abstr. 2898 (1952): **20,** 1328 (*Aug.*, 1952).
Abstr. 3297 (1952): **48,** 518 (*Pt* 3, 1952).
Abstr. 3752 (1952): **5,** 567 (*No.* 4, 1952).
Abstr. 3960 (1952): **20,** 1331 (*Aug.*, 1952).
Abstr. 4212 (1952): **9,** 336 (*No.* 6, 1952).
Abstr. 4291 (1952): **23,** 600 (*May*, 1952).
Abstr. 4965 (1952): **65,** 555 (*July*, 1952).
Abstr. 5022 (1952): **65,** 555 (*July*, 1952).
Abstr. 5217 (1952): **20,** 1180 (*July*, 1952).
Abstr. 7287 (1952): **65,** 742 (*Sept.*, 1952).

NOTE ON THE UNIVERSAL DECIMAL CLASSIFICATION SYSTEM

The abstracts in this volume are classified by subject according to the Universal Decimal Classification, and arranged in order of their U.D.C. numbers, which are printed at the head of the Abstract on the right.

The complete tables of the 4th International Edition of the U.D.C. are in process of publication. The following Parts are available from the British Standards Institution, 24 Victoria Street, London, S.W.1.

Vol. 1, Part 1: General Introduction; Auxiliary Tables; Class 0 Generalities.

Vol. 2, Part 1: Classes 50 General Works on Pure Science; 51 Mathematics; 52 Astronomy. Geodesy; 53 Physics.

Vol. 2, Part 2: Class 54 Chemistry.

Vol. 2, Part 3: Classes 55 Geology. Geophysics; 56 Palaeontology; 57 Biology; 58 Botany; 59 Zoology.

Abridged tables of certain sections were published with the January (1949) issues of *Science Abstracts*, by permission of the British Standards Institution, and a few reprints of these tables are available from The Institution of Electrical Engineers, Savoy Place, London, W.C.2.

The U.D.C. numbers of the main sections of *Science Abstracts* are given in the Contents List each month.

Symbols used in the U.D.C.

: links numbers denoting subjects, dealt with in relation to each other in the article

/ indicates extension over several numbers (e.g. 535.41/.43 represents 535.41 to 535.43 inclusive)

( ) signifies Place (e.g. (485), in Sweden)

– is used to attach special analytical subdivisions applicable to certain sections (e.g. –31, ultra-violet; hence 535.34–32 ultra-violet abosrption)

.0 indicates other analytical subdivisions applicable throughout Sections 53/59 (e.g. .08, measurement, hence 536.63.08, measurement of specific heat)

Numbers are normally divided into groups of three digits by stops for convenience.

SUPPLEMENT TO LIST OF JOURNALS

The following is the third annual Supplement to the list of Journals published in January, 1950 (contained in Vol. 53), and gives additions and alterations made since December, 1950.

The addresses are believed to be correct, but no responsibility can be accepted for errors. Journals marked * are not received regularly.

*Acta Radiol. [Stockholm]	*Acta Radiologica.* [Abstracted by *Photographic Abstracts.*]
Adv. Phys.	*Advances in Physics.* Quarterly Supplement of the Philosophical Magazine. Taylor and Francis, Red Lion Court, Fleet Street, London, E.C.4.
*Aero. Res. Curr. Pap.	*Aeronautical Research Council (Ministry of Supply) Current Papers.* H.M. Stationery Office, Kingsway, London, W.C.2.
*Akad. Tekn. Vidensk. Lydtekn. Lab. Medd.	*Akademiet for de Tekniske Videnskaber. Lydteknisk Laboratorium. Meddelelse.* 10 Øestervoldgade, Copenhagen.
*Akad. Wiss. Mainz Abh. Math.-nat. Kl.	*Akademie der Wissenschaften und der Literatur [Mainz]. Abhandlungen der Mathematischnaturwissenschaftlichen Klasse.* [Abstracted by *Mathematical Reviews.*]
*Alluminio	*Alluminio.* Organo dell'Istituto Sperimentale dei Metalli Leggeri. Via della Posta 8–10, Milan.
*Amer. Scientist	*American Scientist.* Burlington, Vermont.
*Amer. Soc. Metals Prepr.	*American Society of Metals Preprint.* [Abstracted by Metropolitan-Vickers Electrical Co.]
Angew. Chem.	*Angewandte Chemie.* Verlag Chemie, Weinheim/Bergstr. 17(a).
*Ann. Meteorol.	*Annalen der Meteorologie.* [Abstracted by *Meteorological Abstracts.*]
Ann. Univ. Turkuensis A	*Annales Universitatis Turkuensis. Ser. A: Physico-Mathematica-Biologica.* Turun Yliopiston Kirjasto [Bibliothèque de l'Université], Turku.
*Appl. Math. Mech. [Leningrad]	*Prikladnaya Matematika i Mechanika.* Leningrad. [Abstracted by *Applied Mechanic Reviews.*]
Appl. Mech. Rev.	*Applied Mechanics Reviews.* American Society of Mechanical Engineers, 29 West 39th St., New York, 18.
Appl. Spectroscopy	*Applied Spectroscopy.* Calco Chemical Division, American Cyanamid Co., Bound Brook, New Jersey.
Applic. and Industr.	*Applications and Industry.* Part 2 of *Transactions of the American Institute of Electrical Engineers.* 33 West 39th Street, New York, 18.
*Arch. Meteorol. Geophys. Bioklimatol. B	*Archiv für Meteorologie, Geophysik und Bioklimatologie, Serie B: Allgemeine und biologische Klimatologie.* Springer-Verlag, Vienna.
*Arh. Kem.	*Arhiv zu Kemiju.* 20 Marulicev trg, Zagréb (Croatia).
Atomic Energy Res. Establ. [Harwell] Rep.	*Atomic Energy Research Establishment [Harwell] Report.* H.M. Stationery Office, Kingsway, London, W.C.2.
BT-H Res. Lab. Publ.	*British Thomson-Houston Research Laboratory Publication.* British Thomson-Houston Company, Rugby.
BT-H Tech. Monogr.	*British Thomson-Houston Technical Monograph.* British Thomson-Houston Company, Rugby.
*Biul. Głów. Inst. Elektrotech.	*Biuletyn Głównego Instytuto Elektrotechniki.* [Published as inset in *Przeglad Elektrotechniczny.*: Al. Czackiego 3/5, Warsaw.
Bull. Cent. Phys. Nucléaire Bruxelles	*Bulletin du Centre de Physique Nucléaire de l' Université Libre de Bruxelles.* 50 Avenue F. D. Roosevelt, Brussels.
*Bull. Earthquake Res. Inst. [Tokyo]	*Bulletin of the Earthquake Research Institute, Tokyo.* [Abstracted by *Mathematical Reviews.*]
Bull. Elect. Engng Educ.	*Bulletin of Electrical Engineering Education.* College of Technology, Manchester 1.
Bull. Inst. Met.	*Bulletin of the Institute of Metals.* [Issued as inset in *Journal of the Institute of Metals.*] 4 Grosvenor Gardens, London, S.W.1.
Bull. Int. Rly Congr. Ass. Elect. Tract. Rlys [English Ed.]	*Bulletin of the International Railway Congress Association. Electric Traction on the Railways. English Edition.* 19 rue du Beau-Site, Brussels.
Bull. Res. Coun. Israel	*Bulletin of the Research Council of Israel.* P.O.B. 607, Jerusalem. Europe: North Holland Publishing Company, Amsterdam. America: Interscience Publishers, New York, N.Y.
*Bull. Soc. Chim. Belgrade	*Bulletin de la Société Chimique de Belgrade.* [Abstracted by *British Abstracts.*]
Chem.-Ing.-Tech.	*Chemie-Ingenieur-Technik.* Verlag Chemie, Weinheim/Bergstr. 17(a).
*Colliery Engng	*Colliery Engineering.* [Abstracted by Metropolitan-Vickers Electrical Co.]
*Comm. Int. Eclair. [CIE] 12th Mtg, 1951	*International Commission on Illumination [CIE] 12th Meeting*, 1951. Central Bureau C.I.E., 1860 Broadway, New York, 23.
*Comment. Math. Helv.	*Commentarii Mathematici Helvetici.* [Abstracted by *Mathematical Reviews.*]
Commun. and Electronics	*Communication and Electronics.* Part 1 of *Transactions of the American Institute of Electrical Engineers*, 33 West 39th Street, New York, 18.
Czechoslovak J. Phys.	*Czechoslovak Journal of Physics.* Central Institute of Physics, Cukrovarnická 10, Praha-Strešovice. Formerly *Časopis pro Pěstování Matematiky a Fisiky* (Physics Section) [*Čas. Pěst. Mat. Fis*].
Direct Current	*Direct Current.* Garraway Ltd., 11A Kensington Church Street, London, W.8.
Dtsch. Elektrotech.	Verlag Technik, Unter den Linden 12, Berlin, N.W.7.
*Elect. Ind.	*Electrical Industries.* 23 Great Queen Street, London, W.C.2.
Electricien	*L'Electricien.* 92 Rue Bonaparte, Paris, VIe.
Electronic Appl. Bull.	*Electronic Application Bulletin.* N. V. Philips' Gloeilampenfabrieken, Eindhoven.

SUPPLEMENT TO LIST OF JOURNALS

**Fra Fys. Verden*	*Fra Fysikkens Verden.* Oslo.
Fysisk Tidsskr.	*Fysisk Tidsskrift.* Selskabet for Naturlærens Udbredelse [Society for the Propagation of Natural Science.] Jul. Gjellerup's Boghandel, Solvgade 87, Copenhagen K.
**Geophys. Mag.* [*Tokyo*]	*Geophysical Magazine, Tokyo.* [Abstracted by *Meteorological Abstracts*].
Geophys. Mem. Meteorol. Off. [*Lond.*]	*Geophysical Memoirs. Meteorological Office* [*Air Ministry*]. H.M. Stationery Office, Kingsway, London, W.C.2.
**Heat. Vent. Engr*	*Heating and Ventilating Engineer.* [Abstracted by Metropolitan-Vickers Electrical Co.]
**Helv. Chim. Acta*	*Helvetica Chimica Acta.* [Abstracted by *British Abstracts.*]
International Electrotechnical Commission Publication	Central Office of the International Electrotechnical Commission, 39 Route de Malagnou, Geneva.
**J. Aero. Sci.*	*Journal of Aeronautical Science.* [Abstracted by *Mathematical Reviews.*]
**J. Appl. Physiol.*	*Journal of Applied Physiology.* 2101 Constitution Avenue, Washington 25, D.C.
J. Glaciol.	*Journal of Glaciology.* British Glaciological Society, c/o Royal Geographical Society, Kensington Gore, London, S.W.7.
J. Inst. Elect. Commun. Engrs. Japan	*Journal of the Institute of Electrical Communication Engineers of Japan.* Nagasaki Buildings, 2–8 Fujimicho, Chiyoda-ku, Tokyo.
**J. Inst. Elect. Engrs Japan*	*Journal of the Institute of Electrical Engineers of Japan* [The Denki-Gakkwai] No. 3, 1–Chome Yurako-Cho, Chiyoda-ku, Tokyo.
J. Phys. Chem.	*Journal of Physical Chemistry.* Formerly *Journal of Physical and Colloid Chemistry* [*J. Phys. Coll. Chem.*] Address unchanged.
Jodrell Bank Ann.	*Jodrell Bank Annals* [*Astronomical Contributions from the University of Manchester, Series I*]. Jodrell Bank Experimental Station, Holmes Chapel, Cheshire.
**Kunststoffe*	*Kunststoffe.* [Abstracted by *Index Aeronauticus.*]
Lab. Pract.	*Laboratory Practice.* United Trade Press, 24 Bride Lane, Fleet Street, London, E.C.3.
**Marconi*	*Marconi.* Via Hermada 2, Genova-Sestri.
Mem. Fac. Sci. Kyūsyū Univ.	*Memoirs of the Faculty of Science of Kyūsyū* [*Kyushu*] *University*, Hukuoka [Fukuoka].
Mem. Fac. Techn. Tokyo Metrop. Univ.	*Memoirs of the Faculty of Technology of Tokyo Metropolitan University.* Tokyo.
**Mem. 52 Riun. A.E.I.* (*Florence, Sept.*, 1951)	*Memorie della 52 Riunione dell'Associazione Elettrotecnica Italiana.* Via S. Paolo 10, Milan.
Mem. Inst. Sci. Industr. Res. Osaka Univ.	*Memoirs of the Institute of Scientific and Industrial Research, Osaka University.* Kitashanada-cho 555, Sakai, Osaka.
Mem. Res. Inst. Acoust. Sci. Osaka	*Memoirs of the Research Institute of Acoustical Science, Osaka National University.* Nagisi, Hirakate-shi, Osaka-fu.
Meteorol. Abstr.	*Meteorological Abstracts and Bibliography.* 3 Joy Street, Boston 8, Massachusetts.
**Meteorol. i Gidrolog.*	*Meteorologiia i Gidrologiia.* [Abstracted by *Meteorological Abstracts.*]
Meteorol. Rep. Meteorol. Off. [*Lond.*]	*Meteorological Reports. Meteorological Office.* [Air Ministry.] H.M. Stationery Office, Kingsway, W.C.2.
**Mineral. Mag.*	*Mineralogical Magazine.* Oxford University Press, Amen House, Warwick Square, London, E.C.4.
Mullard Tech. Commun.	*Mullard Technical Communications.* Century House, Shaftesbury Avenue, London, W.C.2.
Navy Dep., Taylor Model Basin Rep.	*Navy Department, David W. Taylor Model Basin, Report.* Washington 7, D.C.
New York Univ. (*Wash. Sq. Coll.*) *Math. Res. Group, Res. Rep.*	*New York University, Washington Square College of Arts and Science, Mathematics Research Group, Research Report.* Washington Square, New York, 3.
New Zealand Engng	*New Zealand Engineering.* New Zealand Institution of Engineers, 18 Aurora Terrace, Wellington, C 1.
**Oil Gas J.*	*Oil and Gas Journal.* [Abstracted by Metropolitan-Vickers Electrical Co.]
Photoelect. Spectrom. Group Bull.	*Photoelectric Spectrometry Group Bulletin.* Unicam Instruments (Cambridge), Arbury Works, Cambridge.
Proc. Amer. Pwr Conf.	*Proceedings of the American Power Conference.* Formerly *Proceedings of the Midwest Power Conference.* Address unchanged.
**Proc. Ass. Amer. Railr. Elect. Sect. Engng Mech. Div.* (1950)	*Proceedings of the Joint Annual Meetings of the Association of American Railroads.* Operations and Maintenance Department, Electrical Section. Mechanical and Engineering Divisions, 59 East Van Buren Street, Chicago, 5.
Proc. Instn Civ. Engrs	*Proceedings of the Institution of Civil Engineers.* Formerly *Journal of the Institution of Civil Engineers* [*J. Instn Civ. Engrs*]. Address unchanged.
**Proc. New Zealand Instn Engrs*	*Proceedings of the New Zealand Institution of Engineers.* 8–12 The Terrace, Wellington, C.1.
Prof. Not. Meteorol. Off. [*Lond.*]	*Professional Notes. Meteorological Office* [*Air Ministry*]. H.M. Stationery Office, London, W.C.2.

**Publ. Nat. Res. Coun. Nat. Acad. Sci.* [*Wash.*]	*Publications of the National Research Council of the National Academy of Sciences.* 2101 Constitution Avenue, Washington 25, D.C.
**Publ. Obs. Michigan*	*Publications of the Observatory of Michigan.* Ann Arbor, Michigan.
**Publ. Sci. Minist. Air* [*France*]	*Publications scientifiques et techniques du Ministère de l'Air* [France]. [Abstracted by *Applied Mechanics Reviews.*]
Pwr Apparatus and Syst.	*Power Apparatus and Systems.* Part 3 of *Transactions of the American Institute of Electrical Engineers.* 33 West 39th Street, New York, 18.
**Quart. J. Math. Oxford* (*Ser.* 2)	*Quarterly Journal of Mathematics, Oxford Second Series.* Oxford University Press, Amen House, Warwick Square, London, E.C.4.
Radio Commun.	*Radio Communication* (*FM-TV, The Journal of*). The Publishing House, Great Barrington, Massachusetts. [Now incorporating *Television Engineering.*]
**Rech. Aéronaut.*	*La Recherche Aéronautique.* [Abstracted by *Applied Mechanics Reviews.*]
**Rep. Res. Inst. Elast. Engng*	*Reports of the Research Institute for Elasticity Engineering.* Kyushu University, Fukuoka.
Rep. Res. Inst. Elect. Commun. Tôhoku Univ.	*Reports of the Research Institute of Electrical Communication of Tôhoku University.* [A section of *Science Reports of the Research Institutes Tôhoku University, Series B* (*Technology*).] Tôhoku University, Sendai.
Rev. Mexicana Fis.	*Revista Mexicana de Física.* Instituto de Física, Tacubo No. 5, Mexico 1.
Rev. RTT	*Revue RTT.* Régie des Télégraphes et Téléphones, 42 Rue des Palais, Brussels III.
**Rev. Soc. Cubana Cienc. Fis. Mat.*	*Revista de la Sociedad Cuôana de Ciencias Fisicas y Matematicas.* [Abstracted by *Mathematical Reviews.*]
Roy. Soc. N.S.W. Monogr.	*Royal Society of New South Wales. Monograph.* Science House, 157 Gloucester Street, Sydney.
Safety Min. Res. Establ. Res. Rep.	*Safety in Mines Research Establishment Research Report.* Ministry of Fuel and Power, Safety in Mines Research Establishment, Portobello Street, Sheffield 1.
Scientia [*Valparaiso*]	*Scientia.* Universidad Técnica Federico Santa Maria, Casilla 110-V, Valparaiso.
**Simon Stevin*	*Simon Stevin.* Erven P. Noordhoff, Oude Boteringestraat 12, Groningen.
Swedish State Pwr Board Publ.	*Swedish State Power Board Publications.* Kungl. Vattenfallsstyrelsen, Karduansmakareg. 8, Stockholm C.
**Tech. Mem. Nat. Adv. Comm. Aeronaut.*	*Technical Memoirs of the U.S. National Advisory Committee for Aeronautics.* [Abstracted by *Applied Mechanics Reviews.*]
**Tech. Notes Nat. Adv. Comm. Aeronaut.*	*Technical Notes of the U.S. National Advisory Committee for Aeronautics.* [Abstracted by *Meteorological Abstracts.*]
Tech. Rep. Engng Res. Inst. Kyoto Univ.	*Technical Reports of the Engineering Research Institute of Kyoto University.* Kyoto.
Tech. Rep. Nat. Adv. Comm. Aeronaut.	*Technical Reports of the U.S. National Advisory Committee for Aeronautics.* [Abstracted by *Mathematical Reviews.*]
Tekn. Fören. Finland Förh.	*Tekniska Föreningens i Finland Förhandlingar.* Svenska Teaterhuset, Helsinki.
Telecommunications [*Jabalpur*]	*Telecommunications.* Jabalpur (M.P.), India.
**Tokyo Astron. Bull.*	*Tokyo Astronomical Bulletin.* Tokyo Astronomical Observatory, Mitaka, Tokyo.
Trans Amer. Math. Soc.	*Transactions of the American Mathematical Society.* [Abstracted by *Mathematical Reviews.*]
Trav. Soc. Sci. Varsovie VI	*Société des Sciences et des Lettres de Varsovie Classe VI: Sciences Techniques. Travaux Techniques.* Pałac Staszica, Nowy Świat 72, Warsaw.
U.R.S.I. Inform. Bull.	*U.R.S.I. Information Bulletin.* U.R.S.I. [International Scientific Radio Union], 42 rue des Minimes, Brussels.
Univ. Microfilms	*University Microfilms.* 313 North First Street, Ann Arbor, Michigan.
**Verh. Schweiz. Naturforsch. Ges.*	*Verhandlungen der Schweizer Naturforschenden Gesellschaft, Davos* (1950).
Wld Pwr Conf.	*General Reports and Papers read before the Sectional Meeting of the World Power Conference.* British National Committee, 201–2 Grand Buildings, Trafalgar Square, London, W.C.2; Central Board of Irrigation, Curzon Road Barracks, New Delhi.
**Z. angew Math. Mech.*	*Zeitschrift für angewandte Mathematik und Mechanik.* [Abstracted by *Mathematical Reviews.*]
Z. Meteorol.	*Zeitschrift für Meteorologie.* [Abstracted by *Meteorological Abstracts.*]
Zh. Eksper. Teor. Fiz.	*Zhurnal Eksperimentalnoĭ Fiziki:* Formerly listed as *Journal of Experimental and Theoretical Physics* [*J. Exp. Theor. Phys., USSR*].
Zh. Tekh. Fiz.	*Zhurnal Tekhnicheskoĭ Fiziki:* Formerly listed as *Journal of Technical Physics.* [*J. Tech. Phys., USSR.*]

Changes of Title

Čas. Pěst. Mat. Fis.	*Časopis pro Pěstování Matematiky.* Title changed to *Czechoslovak Journal of Physics* [*Czechoslovak J. Phys.*] and *Czechoslovak Mathematical Journal* [*Czechoslovak Math. J.*] owing to separation of mathematics and physics into separate journals as from end of Vol. 75, 1950.
Elektrotechnik [*Berlin*]	*Elektrotechnik.* Title changed to *Deutsche Elektrotechnik* [*Dtsch. Elektrotech.*] from the April issues of 1952 to differentiate from the Czechoslovak journal of the same name.
Euclides	The journal formerly referenced as *Euclides* will now appear as *Euclides* [*Madrid*] to differentiate from the Dutch journal of the same name.
J. Exp. Theor. Phys., USSR	*Journal of Experimental and Theoretical Physics, USSR.* Now listed as *Zhurnal Eksperimentalnoi i Teoreticheskoi Fiziki* [*Zh. Eksper. Teor. Fiz.*].
J. Instn Civ. Engrs	*Journal of the Institution of Civil Engineers.* Title changed to *Proceedings of the Institution of Civil Engineers* [*Proc. Instn Civ. Engrs*] from 1952.
J. Phys. Coll. Chem.	*Journal of Physical and Colloid Chemistry.* Title changed to *Journal of Physical Chemistry* [*J. Phys. Chem.*] as from January, 1952.
J. Tech. Phys., USSR	*Journal of Technical Physics, USSR.* Now listed as *Zhurnal Tekhnicheskoi Fiziki* [*Zh. Tekh. Fiz.*].
Proc. Midwest Pwr Conf.	*Proceedings of the Midwest Power Conference.* Title changed to *Proceedings of the American Power Conference.*
Televis. Engng [*TVE*]	*Television Engineering.* Incorporated in *Radio Communication* from issue of May, 1952.

Changes of Address

Analyt. Chem.	*Analytical Chemistry.* American Chemical Society, 1155 16th Street N.W., Washington 6, D.C.
Ann. Astrophys.	*Annales d'Astrophysique.* 45 rue d'Ulm, Paris (V^e).
Arch. tech. Messen	*Archiv für technisches Messen.* R. Oldenbourg, Lotzbeckstr. 2b, Munich.
Brit. Med. Bull.	*British Medical Bulletin.* British Council, 65 Davies Street, W.1.
Brit. Res. Rep.	*British Research Reports.* Technical Information and Documents Unit, Department of Scientific and Industrial Research, Cunard Buildings, 15 Regent Street, London, S.W.1.
Bull. Soc. Belge Elect.	*Bulletin de la Société Belge des Electriciens.* 1 Place du Trône, Brussels.
Chem. Engng News	*Chemical and Engineering News.* Address as *Analytical Chemistry.*
Cienc. y Tecn.	*Ciencia y Técnica.* Peru 359 (1° piso), Buenos Aires.
Disc. Faraday Soc.	*Discussions of the Faraday Society.* Aberdeen University Press, 6 Upper Kirkgate, Aberdeen.
Elect. Light Pwr	*Electric Light and Power.* 22 East Huron Street, Chicago 1.
Electro-techniek	*Electro-techniek.* Koninginnegracht 64, The Hague.
Elektrizitätswirtschaft	*Elektrizitätswirtschaft.* Bockenheimer Landstr. 109, Frankfurt am Main.
Elektrotech. Obz.	*Elektrotechnicky Obzor.* Biskupská 7, Prague II.
Elektrotechnik [*Berlin*]	*Elektrotechnik.* Verlag Technik, Unter den Linden 12, Berlin, N.W.7.
Elektrotek. Tidsskr.	*Elektroteknisk Tidsskrift.* Rosenborggt 19, Oslo.
Frequenz	*Frequenz.* Fachverlag Schiele & Schön, Boppstrasse 10, Berlin, S.W.29.
Gaz. Mat.	*Gazeta de Matematica.* Rua Almirante Barroso 20, r/c, Lisbon-N.
Geophysics	*Geophysics.* 1138 Thirty-seventh Street, Box 7248, Tulsa 18, Oklahoma.
Gidrotekh. Stroit.	*Gidrotekhnicheskoe Stroitelstvo.* Vetoshnyi per. Zdanie B. Gum, Moscow.
Illum. Engng [*N.Y.*]	*Illuminating Engineering.* 32nd St. & Elm Avenue, Baltimore, Maryland.
Indian J. Phys.	*Indian Journal of Physics* and *Proceedings of the Indian Association for the Cultivation of Science.* 2 and 3 Lady Willingdon Road, Calcutta 32.
Industr. Engng Chem.	*Industrial and Engineering Chemistry.* Address as *Analytical Chemistry.*
Ingegnere	*L'Ingegnere.* Via F. Civinini 37, Rome.
Instrumentation	*Instrumentation.* Minneapolis-Honeywell Regulator Co., Brown Instruments Division, Wayne and Windrim Avenues, Philadelphia 44.
J. Electrodepos. Tech. Soc.	*Journal of the Electrodepositors' Technical Society.* 32 Great Ormond Street, Holborn, London, W.C.1.
J. Televis. Soc.	*Journal of the Television Society.* 164 Shaftesbury Avenue, London, W.C.2.
Mitt. Inst. Geophys. E.T.H. Zürich	*Mitteilungen aus dem Institut für Geophysik.* Eidgenössiche Technische Hochschule, Leonhardstrasse 33, Zürich.
Nachrichtentechnik	*Nachrichtentechnik.* Verlag Technik, Unter den Linden 12, Berlin, N.W.7.
Nuovo Cim.	*Nuovo Cimento.* Via Saldini 50, Milan.
Overseas Res. Rep.	*Overseas Research Reports.* Technical Information and Documents Unit, Department of Scientific and Industrial Research, Cunard Buildings, 15 Regent Street, London, S.W.1.
PTT-Bedrijf	*PTT-Bedrijf.* Hoofdbestuur der Posterijen, Telegrafie en Telefonie. 12 Kortenaerkade, The Hague.
Phys. Bl.	*Physikalische Blätter.* Physik-Verlag, Scheffelstr. 1, Mosbach/Baden.
Proc. Nat. Inst. Sci. India	*Proceedings of the National Institute of Sciences of India.* Mathura Road, New Delhi.
Rev. Tech. Luxemb.	*Revue Technique Luxembourgeoise.* L'Association Luxembourgeoise des Ingénieurs et Industriels. 15 Boulevard Roosevelt, Luxembourg.
Slabopr. Obz.	*Slaboproudy Obzor.* Biskupská 7, Prague II.
Technik	*Technik.* Verlag Technik, Unter den Linden 12, Berlin, N.W.7.
Trans Faraday Soc.	*Transactions of the Faraday Society.* Aberdeen University Press, 6 Upper Kirkgate, Aberdeen.
Z. Naturforsch.	*Zeitschrift für Naturforschung.* Mathildenstr. 29, Tübingen.
Z. Öst. Ing. Arch. Ver.	*Zeitschrift des Österreichischen Ingenieur- und Architekten-Vereins.* Eschenbachgasse 9, Vienna I.

JOURNALS ABSTRACTED COMPLETELY

The following list gives the names of those journals whose contents, being entirely original contributions in Physics or Electrical Engineering, have been abstracted completely during the run of the current volume of *Science Abstracts* in one or other section (transient and non-scientific items excepted).

Acta Physica Austriaca
Acta Physica Hungarica
Acta Physica Polonica
Acustica
Advances in Physics
Akustische Beihefte
Alta Frequenza
Annalen der Physik
Annales de Physique
Annales de Radioélectricité
Annales de Télécommunication
Applied Scientific Research
Archiv der elektrischen Übertragung
Archiv für Elektrotechnik
Arkiv för Fysik
Bell System Technical Journal
British Journal of Applied Physics
Cahiers de Physique
Canadian Journal of Physics
Chinese Journal of Physics
Electronics
Elektrichestvo
Elettrotecnica
Frequenz
Helvetica Physica Acta
Indian Journal of Physics
Journal of the Acoustical Society of America
Journal of Applied Physics
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Journal de Physique et le Radium
Journal of the Physical Society of Japan
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Philosophical Magazine
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Physical Review
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Proceedings of the Institution of Electrical Engineers
Proceedings of the Physical Society
Progress of Theoretical Physics
Reports of the Physical Society on Progress in Physics
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